National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material 148

Nicotinic Acid

This Standard Reference Material (SRM) consists of highly purified nicotinic acid and is intended for use in checking microdeterminations of carbon, hydrogen, and nitrogen in organic matter. This SRM is supplied in a unit consisting of 2 g of powdered material in a crystalline form. The absolute purity of this standard has not been established, but titrimetric assay indicates a purity of 99.99 ± 0.08%. Thin-layer chromatographic analysis does not show the presence of any significant impurities. Microchemical determinations yielded values that check the theoretical composition within experimental limits of error. The certified composition of this SRM is given below and is based on theoretical percentages by weight.

Element	Wt. %
Carbon	58.54
Hydrogen	4.09
Nitrogen	11.38

Source of Material: This material was obtained from Columbia Organic Chemicals of Columbia, SC.

Drying Instructions: This material is not hygroscopic under ordinary conditions of storage and can be used without preliminary drying.

Expiration of Certification: This certification will be valid for 5 years from date of shipment from NIST.
The overall direction and coordination of the technical measurements leading to the certification were performed under the chairmanship of J. K. Taylor of the NIST (formerly NBS) Analytical Chemistry Division.

The original technical and support aspects concerning the certification and issuance of this SRM were coordinated through the Standard Reference Materials Program by T.W. Mears. The technical and support aspects involved in the revision of this SRM were coordinated through the Standard Reference Materials Program by J.C. Colbert.

This Certificate of Analysis has undergone editorial revision to reflect program and organizational changes at NIST and the Department of Commerce. No attempt was made to reevaluate the certificate values or any technical data presented on this certificate.

Gaithersburg, MD 20899
December 12, 1994
(Revision of certificate dated 12-22-70)

Thomas E. Gills, Chief
Standard Reference Materials Program